

Interferenced Search 5/16/06  
mce

### EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L77	3492	((711/159,170) or (707/206) or (717/128)).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 17:01
L79	1	L77 AND ((memory ADJ leak\$3) AND indicator\$1 AND heap\$1 AND (live ADJ object\$1) AND (garbage ADJ collect\$4) AND (unused ADJ object\$1)).clm.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 17:05

The recent database difficulties have been resolved. Please let us know if you encounter any data corruptions.



Find: (garbage collection) AND (memory

Documents

Citations

Searching for **(garbage collection) and (memory leaks or leakage) and (dump or dumping or dumps)**.

Restrict to: [Header](#) [Title](#) Order by: [Expected citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Google \(CiteSeer\)](#) [Google \(Web\)](#) [Yahoo!](#) [MSN](#) [CSB](#) [DBLP](#)

3 documents found. Order: number of citations.

[API Design - McCool \(2002\)](#) (Correct)

smart pointers implement a simple **garbage collection** scheme which in this case is adequate to scheme which in this case is adequate to avoid **memory leaks**. Compiling expressions in this way eliminates a Cprogram defining an appropriate shader and **dumping** a precompiled binary representation. However, reality.sgiweb.org/olano/s2002c17/ch07.pdf

[Purify: Fast Detection of Memory Leaks and Access Errors - Er Ro Rs](#) (Correct)

**memory leaks** using a novel adaptation of **garbage collection** techniques. Purify produces standard / Whitepapers Purify: Fast Detection of **Memory Leaks** and Access Errors This paper describes architectures a substantial task. 5. **Memory Leaks Memory leaks** are even harder than memory access www.stanford.edu/class/cs343/ps/purify.ps

[Checkmate: Cornering C++ Dynamic Memory Errors With.. - Pike, Weide..](#) (Correct)

from pointer pitfalls, the use of **garbage collection** dictates that languages like Cwill still and deallocation errors, including **memory leaks**. The syntax of checked pointers is highly reproduce the root cause of the resulting core **dump** or snowball behavior. Checked pointers also detect www.cis.ohio-state.edu/~weide/sce/now/./papers/pointer-paper/pointer-paper.pdf

Try your query at: [Google \(CiteSeer\)](#) [Google \(Web\)](#) [Yahoo!](#) [MSN](#) [CSB](#) [DBLP](#)

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Find: (garbage collection) AND (memory

Documents

Citations

Searching for **(garbage collection) and (memory leaks or leakage) and (log or logs or logging)**.

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9 documents found. **Order: number of citations.**

[Efficient Incremental Garbage Collection for... - Amsaleg, Franklin.. \(1994\)](#) (Correct) (13 citations)

Et Automatique Efficient Incremental **Garbage Collection** For Workstation/server Database Systems and is highly error-prone, raising the risk of **memory leaks** and dangling pointers. For these reasons It is fault tolerant, but performs very little **logging**. The algorithm has been designed to be  
<ftp.inria.fr/INRIA/publication/publi-ps-gz/RR/RR-2409.ps.gz>

**One or more of the query terms is very common - only partial results have been returned. Try [Google \(CiteSeer\)](#).**

[On the Effectiveness of GC in Java - Shaham, Kolodner, Sagiv \(2000\)](#) (Correct) (5 citations)

ABSTRACT We study the effectiveness of **garbage collection** (GC) algorithms by measuring the time behavior (as done in [9]) We can track **memory leaks** and tune performance by inspecting the information in an object's trailer is written to a **log** file upon reclamation of the object or upon  
[www.math.tau.ac.il/~rans/ismm00.ps.gz](http://www.math.tau.ac.il/~rans/ismm00.ps.gz)

[Modeling Software Systems with Rejuvenation... - Bobbio, Garg.. \(1999\)](#) (Correct) (2 citations)

downtime. Well known examples include online **garbage collection** such as in emacs or Java Virtual Machine (such as erroneous output of a simulation) **Memory leaks**, unreleased object references, faulty pointer execution state of a program, along with transaction **logging**, is another well known fault tolerance  
[webspn.hit.bme.hu/~telek/cikkekbobb99a.ps.gz](http://webspn.hit.bme.hu/~telek/cikkekbobb99a.ps.gz)

[Garbage Collection in Object Oriented Databases Using... - Ashwin Prasan Roy \(1997\)](#) (Correct) (2 citations)

**Garbage Collection** in Object Oriented Databases Using  
90 update passes interspersed with **garbage collection garbage collection** is invoked when the database and leads to common programming errors such as **memory leaks** (garbage objects that are not referred to from  
[www.cse.iitb.ernet.in:8000/proxy/db/~dbms/Data/Publications/gc-vldb97-final.ps](http://www.cse.iitb.ernet.in:8000/proxy/db/~dbms/Data/Publications/gc-vldb97-final.ps)

[Evaluating Garbage Collectors for Large Persistent Stores - Laurent Amsaleg \(1995\)](#) (Correct) (2 citations)

issues regarding benchmarks for evaluating **garbage collection** in persistent distributed stores. We and is highly error-prone, raising the risk of **memory leaks** and dangling pointers. For these reasons features like inter-transaction caching, write-ahead-logging (WAL) based recovery, steal-based"  
[retina.inesc.pt/people/pjpf-home/oopsla95-gc-amsaleg.ps](http://retina.inesc.pt/people/pjpf-home/oopsla95-gc-amsaleg.ps)

[Towards Performability Modeling of Software Rejuvenation - Garg, van Moorsel \(1996\)](#) (Correct) (1 citation)

[12] S. Garg and A. van Moorsel. Towards performability modeling of  
[www.crhc.uiuc.edu/PERFORM/UltraSAN/pmccs3-pdfs/garg2-pmccs3.pdf](http://www.crhc.uiuc.edu/PERFORM/UltraSAN/pmccs3-pdfs/garg2-pmccs3.pdf)

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site:citeseer.ist.psu.edu (garbage collection) a

[Advanced Search](#)  
[Preferences](#)The "AND" operator is unnecessary -- we include all search terms by default. ([details](#))**Web Results 1 - 10** of about 13 from citeseer.ist.psu.edu for (garbage collection) and (memory leaks OR leakage) and (log**Citations: Partitioned garbage collection of a large object store ...**Partition local **garbage collection** uses objects in the IN list as (part of) the .... To avoid important **memory leaks** in distributed storage systems, ...

citeseer.ist.psu.edu/context/163325/377351 - 27k - Cached - Similar pages

**A Survey of Distributed Garbage Collection Techniques - Plainfoss ...**Such counting-based techniques are unable to collect cycles of **garbage** and must assume that they are rare enough to minimize **memory leakage**. ...

citeseer.ist.psu.edu/4009.html - 29k - May 14, 2006 - Cached - Similar pages

**Citations: Collecting cyclic distributed garbage by controlled ...**To avoid important **memory leaks** in distributed storage systems, ... However, we simulate delays for **log** forces as if it were stored on a **logging** disk, ...

citeseer.ist.psu.edu/context/39652/8366 - 35k - Cached - Similar pages

**Citations: Computer Systems with a Very Large Address Space and ...**To avoid important **memory leaks** in distributed storage systems, detection of ... Partitioned **Garbage Collection** of a Large Object Store - Maheshwari, ...

citeseer.ist.psu.edu/context/55869/0 - 39k - Cached - Similar pages

**Memory Management [CiteSeer; NEC Research Institute; Steve ...**A program that space **leaks** consumes more **memory** than would be expected. This may lead to long... / of the computation causing **garbage collection** more often ...

citeseer.ist.psu.edu/Programming/MemoryManagement/ - 118k - Cached - Similar pages

**Citations: An Approach to Persistent Programming - Atkinson ...**Furthermore, failure to delete unreachable objects causes **memory leaks**, ... Much previous work in distributed **garbage collection**, such as SSP Chains ....

citeseer.ist.psu.edu/context/34392/0 - 35k - Cached - Similar pages

**compact garbage collection tables - ResearchIndex document query**Additionally, the system should **garbage-collect memory** to prevent **memory leakage**, and ideas in HTML. For example, before support for tables was common, ...

citeseer.ist.psu.edu/ cs?

cs=1&amp;q=Compact+garbage+collection+tables&amp;submit=Documents - 25k -

Cached - Similar pages

**Memory Management [CiteSeer; NEC Research Institute; Steve ...**24 Distributed System Fault Tolerance Using Message **Logging** and.. - Johnson (1989)(Correct) 24 Space Efficient Conservative **Garbage Collection** - Boehm ...

citeseer.ist.psu.edu/Programming/ MemoryManagement/index-titles.html - 44k -

Cached - Similar pages

**Esp: A Language For Programmable Devices - Kumar (ResearchIndex)**92 Purify: Fast Detection of **Memory Leaks** and Access Errors (context) ... 36 Virtual **Log**

Based File Systems for a Programmable Disk - Wang, Anderson et al. ...

citeseer.ist.psu.edu/kumar02esp.html - 47k - Cached - Similar pages

**Citations: Software rejuvenation--design, implementation and ...****Memory** bloating and **leaks**, unreleased 2 file locks and data corruption etc. ... **Garbage collection**, flushing operating system kernel tables, ...

citeseer.ist.psu.edu/context/1283092/0 - 14k - Cached - Similar pages

[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Maps](#) [more »](#)site:citeseer.ist.psu.edu (garbage collection) and  [Advanced Search](#)  
[Preferences](#)The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)**Web** Results 11 - 13 of 13 from citeseer.ist.psu.edu for (garbage collection) and (memory leaks OR leakage) and (log ORCitations: Software rejuvenation--design, implementation and ...**Memory** bloating and **leaks**, unreleased 2 file locks and data corruption etc. ... **Garbage collection**, flushing operating system kernel tables, ...

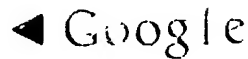
citeseer.ist.psu.edu/context/1283092/0 - 14k - Cached - Similar pages

Esp: A Language For Programmable Devices - Kumar (researchindex)255 Uniprocessor **Garbage Collection** Techniques - Wilson - 1992 ... 85 Purify: FastDetection of **Memory Leaks** and Access Errors (context) - Hastings, ...

citeseer.ist.psu.edu/532933.html - 36k - Supplemental Result - Cached - Similar pages

shamila makki - ResearchIndex document queryto run in  $O(mn \log n)$  time (see Kou and Makki [5] and Melhorn [8]) This means that our Mat.Fyz. ... Autonomous **Garbage Collection**: Rwsolving **Memory Leaks** in. ...

citeseer.ist.psu.edu/cis?q=Shamila+Makki - 20k - Cached - Similar pages

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## Scholar Results 1 - 10 of about 29 for memory (leak OR leaks OR leaking OR leagage) "(heap OR stack OR core OR snapshot) (dump OR dumps OR dumping

[All articles](#) [Recent articles](#)

[PS] Vmalloc: A General and Efficient Memory Allocator - group of 7 »

KP Vo - Software Practice and Experience, 1996 - [akpublic.research.att.com](#)

... each allocation is cleared to ensure that the respective memory pages are ... malloc uncollectable() and GC free() are used so that garbage collection is bypassed ...

Cited by 46 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Static prediction of heap space usage for first-order functional programs - group of 3 »

M Hofmann, S Jost - Proceedings of the 30th ACM SIGPLAN-SIGACT symposium on ..., 2003 - [portal.acm.org](#)

... See also the remark on garbage collection at the end of this section. Let Loc be

a set of locations which model memory addresses on a heap abstracted over ...

Cited by 63 - [Web Search](#) - [BL Direct](#)

Issues in the Design and Implementation of Real-Time Java

K Nilsen - Java Developer's Journal, 1996 - [www.md.e-technik.uni-rostock.de](#)

... the possibility of dangling pointers and memory leaks. ... process of automatically

detecting memory cells that ... themselves as crashes or core dumps." He projects ...

Cited by 65 - [View as HTML](#) - [Web Search](#)

Checkmate: cornering C++ dynamic memory errors with checked pointers - group of 8 »

SM Pike, BW Weide, JE Hollingsworth - Proceedings of the thirty-first SIGCSE technical symposium ..., 2000 - [portal.acm.org](#)

... the root cause of the resulting core dump or snowball ... important information to

facilitate debugging memory leaks (see below ... it reports is a memory leak in the ...

Cited by 7 - [Web Search](#) - [BL Direct](#)

A region-based memory manager for prolog - group of 5 »

H Makhholm - Proceedings of the second international symposium on Memory ..., 2001 - [portal.acm.org](#)

... Indeed, the techniques for avoiding memory leaks in tail ... Therefore, most

memory-management operations take ... in the cut-away choice point's snapshot list. ...

Cited by 4 - [Web Search](#) - [BL Direct](#)

[PS] Prolog and Abduction 4 writing Garbage Collectors - group of 3 »

B Demoen - Pre-Proceedings of Tenth International Workshop on Logic- ..., 2000 - [cs.kuleuven.ac.be](#)

... once it is stated explicitly that stack dumps must be ... for what is called semantic

garbage collection, neither for ... term/3, and in nding memory leaks in builtin ...

Cited by 2 - [View as HTML](#) - [Web Search](#)

Bugloo: A source level debugger for scheme programs compiled into jvm bytecode - group of 2 »

D Ciabini, M Serrano - Proceedings of the International Lisp Conference 2003, 2003 - [www-sop.inria.fr](#)

... a garbage collector is to eliminate such leaks by automatically ... file->ast or

ast->il is responsible of the memory leak. ... a GC and then query a heap dump to see ...

[\[PS\] Type-specific storage management - group of 3 »](#)

DR Edelson - 1993 - cse.ucsc.edu

... Keywords: **Garbage collection**, **memory** management, object-oriented program- ming, C++, **memory** allocation, reference counting Page 2. i Contents Acknowledgements ...

Cited by 5 - View as HTML - Web Search - Library Search

[Extending and Embedding the Python Interpreter - group of 61 »](#)

G van Rossum - Amsterdam: Stichting Mathematisch Centrum, 1995 - ensta.fr

... dangling pointer, C code which raises the exception could cause a **core dump** or other ... this code is not complete: Py\_BuildValue() may run out of **memory**, and this ...

Cited by 24 - View as HTML - Web Search - Library Search

[From novel mathematics to efficient algorithms. Do we have proper SD foundation to build future? - group of 2 »](#)

FV Tkachov - Arxiv preprint hep-ph/0202033, 2002 - arxiv.org

... system supporting dynamic loader with version control and strict interface control

as well as automatic **memory** management (the **garbage collection** well-known eg ...

Cited by 4 - View as HTML - Web Search - BL Direct

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memory (leak OR leaks OR leaking ·

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## Scholar Results 11 - 20 of about 29 for memory (leak OR leaks OR leaking OR leakage) "(heap OR stack OR core OR snapshot) (dump OR dumps OR dumping

[book] Efficient detection of all pointer and array access errors - group of 4 »  
TM Austin, SE Breach, GS Sohi - 1994 - ACM Press New York, NY, USA  
... environments do provide some level of protection against **memory** access errors. ...  
system to terminate execution of the program (usually with a **core dump**). ...  
Cited by 166 - Web Search - Library Search - BL Direct

[book] Smart Pointers: They're Smart, But They're Not Pointers - group of 11 »  
D Edelson - 1992 - csc.uvic.ca  
... then some' might be: tracing **garbage collection** [Ede92], reference ... only requires one  
indirect **memory** reference ... assignment cout << str // This causes a **core dump**. ...  
Cited by 47 - View as HTML - Web Search - Library Search

Teapot: a domain-specific language for writing cache coherence protocols - group of 4 »  
S Chandra, B Richards, JR Larus - Software Engineering, IEEE Transactions on, 1999 - ieexplore.ieee.org  
... otherwise deallocated) to prevent **memory leaks**, as there ... variants of conventional  
shared **memory** protocols) were ... with deadlocks, livelocks, **core dumps**, and most ...  
Cited by 22 - Web Search - BL Direct

[ps] Automatic Verification OF Program Cleaness

N Dor - 2003 - cs.tau.ac.il  
... is dereferenced or where **leaking memory** is created ... For example, absence of **memory**  
leakage or absence of ... contain any unexpected behavior such as **core dump** or an ...  
Cited by 1 - View as HTML - Web Search

[ps] Compiling standard ML for efficient execution on modern machines - group of 3 »

Z Shao - 1994 - flint.cs.yale.edu  
... 22 **Garbage collection** cost : : : 111 ... very fast and use little  
**memory**. ... languages might **core-dump**, and they ...  
Cited by 16 - View as HTML - Web Search - Library Search

[ps] The winterp widget interpreter: an application prototyping and extension environment for osf/motif

NP Mayer - Motif91, First Annual Motif Users Meeting, 1991 - cybertube.com  
... subtle **memory leaks** if objects are not freed at all. In Winterp, **memory** need not  
be managed explicitly, since Lisp's **garbage collection** automatically frees ...  
Cited by 2 - View as HTML - Web Search

[ps] A Transformation-Based Optimiser for Haskell - group of 15 »

SLP Jones, ALM Santos - Science of Computer Programming, 1998 - cin.ufrpe.br  
... Morrison et al. [1991]), give fast access to polymorphic records (Ohoi  
[1992]), guide **garbage collection** (Tolmach [1994]). The most ...



**TC: An Efficient Implementation of the Tcl Language.** - group of 2 »

A Sah - 1994 - eecs.berkeley.edu

... Such automatic **memory** management is usually called **garbage collection** and there are a host of known techniques for implementing it[Wi92]. ...

Cited by 7 - View as HTML - Web Search - Library Search

**bookj More C++ Gems**

RC Martin - 2000 - books.google.com

... Immo Hünefée 3 ABSTRACT CLASSES AND PURE VIRTUAL FUNCTIONS\$ Robert C. Martin 15

**MEMORY** MANAGEMENT AND SMART POINTERS • Cay S. Horstmann 33 POINTERS VS. ...

Web Search - Library Search

**IBM SanFrancisco Performance Tips and Techniques** - group of 2 »

G Schimunek, T Fanto, MC Filorizzo, A Rauch, R ... - International Business Machines Corporation Redbooks, ..., 1999 - ibm.rjenk.com

Page 1. IBM SanFrancisco Performance Tips and Techniques Gottfried Schimunek,

Thomas Fanto, Maria Cristina Filorizzo, Armin Rauch ...

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memory (leak OR leaks OR leaking

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## Scholar Results 21 - 29 of 29 for memory (leak OR leaks OR leaking OR leagage) "(heap OR stack OR core OR snapshot) (dump OR dumps OR dumping OR i

### Automatisches Debugging

H Cleve, A Zeller - 2001 - infosun.fmi.uni-passau.de

Page 1. Automatisches Debugging Holger Cleve und Andreas Zeller (Hrsg.) Universitat Passau Lehrstuhl für Software-Systeme 19. April 2001 Page 2. 2 Page 3. Vorwort ...

Cited by 2 - [View as HTML](#) - [Web Search](#)

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### [book] Experience with a Language for Writing Coherence Protocols - group of 14 »

S Chandra... - 1997 - [usenix.org](#)

... with problems of deadlocks, livelocks, **core dumps**, and most ... to programmers how the **memory** management of ... dynamically match, continuation records **leak**, as we do ...

Cited by 26 - [Web Search](#) - [Library Search](#)

### [rsj] An Effective Speculative Evaluation Technique for Parallel Supercombinator Graph Reduction - group of 2 »

JS Mattson Jr - 1993 - [dcs.gla.ac.uk](#)

... 57 3.3 **Memory** Management. .... 36 Figure 3.1: A loosely-coupled shared-**memory** (NUMA) multiprocessor. ....

Cited by 17 - [View as HTML](#) - [Web Search](#) - [Library Search](#)

### [book] Declarative Debugging for Lazy Functional Languages

H Nilsson - 1998 - [ida.liu.se](#)

... the explanation lies in that declarative languages invariably have automatic **memory** management (**garbage collection**) and quite often also sophisticated type ...

Cited by 35 - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

### Persistent Object Stores - group of 2 »

AL Brown - Universities of St. Andrews and Glasgow, Persistent ..., 1989 - [dcs.st-and.ac.uk](#)

... 44 3.6 **Garbage collection** ... 44 ... that all the data is in main **memory**. The **core dumping** technique can be ...

Cited by 67 - [View as HTML](#) - [Web Search](#) - [Library Search](#)

### The omniORB version 3.0 User's Guide - group of 15 »

SL Lo, D Riddoch, D Grisby - AT&T Laboratories Cambridge, May, 2000 - [uk.research.att.com](#)

Page 1. The omniORB version 3.0 User's Guide Sai-Lai Lo (email: [slo@uk.research.att.com](mailto:slo@uk.research.att.com)) David Riddoch ...

Cited by 3 - [View as HTML](#) - [Web Search](#)

### Some useful Modula-3 interfaces - group of 17 »

J Horning, B Kalsow, P McJones, G Nelson - Researchreport113, SystemsResearchCenter. ..., 1993 - [gatekeeper.research.compaq.com](#)

... Alerted. CONSTANT AtomicSize = ...; An implementation-dependent integer constant: the number of bits in a **memory**-coherent block. ...

**book Inside Java 2 Platform Security: Architecture, API Design, and Implementation**

L Gong, G Ellison, M Dageforde - 2003 - books.google.com

Page 1. Inside Java 2 Platform Security, Second Edition Architecture, API Design, and Implementation •Sun microsystems JAVA Page 2. Inside Java TM 2 ...

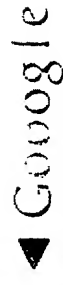
Cited by 278 - Web Search - Library Search

**c Copyright 2001 by Daniel Lowry Lough - group of 3 »**

DL Lough - 2001 - antareja.rvs.uni-bielefeld.de

Page 1. A TAXONOMY OF COMPUTER ATTACKS WITH APPLICATIONS TO WIRELESS NETWORKS by Daniel Lowry Lough Dissertation submitted to the ...

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memory (leak OR leaks OR leaking

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## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	7	(garbage near2 collect\$4) WITH ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3))	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 10:33
L10	15	(garbage near2 collect\$4) SAME ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3))	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:03
L11	3	((("6425063") or ("6430564") or ("6473773")).PN.	US-PGPUB; USPAT	OR	OFF	2006/05/16 10:51
L12	7	((garbage near2 collect\$4) OR memory ADJ leak\$3) SAME ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3)) NOT L10	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 11:15
L13	68	((((garbage near2 collect\$4) OR memory ADJ leak\$3) AND ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3))) NOT (L10 OR L12)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 12:55
L14	3687	((711/159) or (711/170-173)).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 11:17
L15	612	(707/206).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 11:17
L16	1079	(718/104).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 11:17
L17	651	((717/128) or (717/148)).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 11:17
L18	7	L13 AND (L14 OR L15 OR L16 OR L17)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 11:17
L20	3	((((garbage near2 collect\$4) SAME memory ADJ leak\$3) AND ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3)))	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 12:55

## EAST Search History

L21	21	(US-20050004884-\$ or US-20050081190-\$ or US-20050114844-\$ or US-20040181562-\$ or US-20050114413-\$ or US-20040073764-\$ or US-20020107879-\$ or US-20060080364-\$).did. or (US-6317869-\$ or US-6453403-\$ or US-6427154-\$ or US-6289360-\$ or US-6594749-\$ or US-6370684-\$ or US-6560773-\$ or US-6038572-\$ or US-6658652-\$ or US-6795836-\$ or US-6093216-\$ or US-6473773-\$). did. or (US-20050114844-\$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 13:10
L22	10	L21 AND (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 13:11
L23	3	L21 AND (memory ADJ leak\$3) AND dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 13:12
L24	12	(memory ADJ leak\$3) SAME dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 13:37
L25	46	(collect\$3 OR log\$4) near5 (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:12
L26	24	(collect\$3 OR log\$4) near5 (memory ADJ leak\$3) near5 (garbage ADJ collection)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 14:00
L27	27	(collect\$3 OR log\$4) near5 (memory ADJ leak\$3) near5 (garbage ADJ collect\$4)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 14:15
L29	9	(collect\$3 OR log\$4 OR list\$3 OR tally\$3) near5 (memory ADJ leak\$3) near5 (data OR information OR attribut\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 14:30
L30	9	(collect\$3 OR log\$4 OR list\$3 OR tally\$3 OR ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3))) near5 (memory ADJ leak\$3) near5 (data OR information OR attribut\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 14:31
L31	12	((collect\$3 OR log\$4 OR list\$3 OR tally\$3 OR ((heap OR memory OR stack OR core OR snapshot) near2 (dump\$3 OR purg\$3)))) WITH ((memory ADJ leak\$3) near5 (data OR information OR attribut\$3))	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 14:32

## EAST Search History

L32	16	(list3 OR log\$4) near5 (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:14
L33	4	dump\$3 near5 (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:15
L34	2	(fil\$3 near3 dump\$3) near5 (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:15
L35	1	((memory ADJ leak\$3) near5 fil\$3) near5 dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:16
L36	1	((memory ADJ leak\$3) near5 fil\$3) WITH dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:16
L37	2	((memory ADJ leak\$3) WITH fil\$3) WITH dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:16
L38	4	((memory ADJ leak\$3)) WITH dump\$3	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:45
L39	57	((memory ADJ leak\$3)) near8 (copying OR cop\$3 OR store\$1 OR storing OR export\$3 OR sav\$3)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:46
L41	14	L39 AND (garbage ADJ collect\$4)	US-PGPUB; USPAT; DERWENT	OR	ON	2006/05/16 15:47
L42	15	((collect\$4 OR obtain\$3 OR retriev\$3) near5 (data OR information or file\$1)) near5 (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:14
L43	650013	@pd>"20051220"	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:14
L44	794	memory ADJ leak\$3	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:14
L45	24	(L44 OR garbage ADJ collect\$4 OR GC) SAME ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3)) SAME (heap near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:14

## EAST Search History

L46	5	L43 AND L45	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:20
L47	17	L45 AND (L14 OR L15 OR L16 OR L17)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:20
L48	4	L43 AND L47	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:20
L49	1	(L44 OR garbage ADJ collect\$4 OR GC) SAME ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3 OR activ\$5)) SAME (heap near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3)) NOT L45	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:20
L50	0	L43 AND L49	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:20
L51	40	(memory ADJ leak\$3 OR garbage ADJ collect\$4 OR GC) AND ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3 OR activ\$5)) SAME (heap near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:20
L52	5	L43 AND L51	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:21
L53	0	(memory ADJ leak\$3 OR garbage ADJ collect\$4 OR GC) AND ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3 OR activ\$5)) SAME ((heap\$1 or (memory near3 pool)) near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3 OR export\$3 OR archiv\$3)) NOT L51	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:21
L54	0	L43 AND L53	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:21

## EAST Search History

L55	2	(memory ADJ leak\$3 OR garbage ADJ collect\$4 OR GC OR (memory near4 (deallocat\$3 OR de-allocat\$3))) AND ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3 OR activ\$5)) SAME ((heap\$1 or (memory near3 pool)) near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3 OR export\$3 OR archiv\$3)) NOT L51	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:21
L56	0	L43 AND L55	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:22
L57	187	(memory ADJ leak\$3 OR garbage ADJ collect\$4 OR GC OR (memory near4 (deallocat\$3 OR de-allocat\$3))) AND ((indicat\$3 OR bit\$1 OR identif\$4 OR mark\$3) near5 (status OR state\$1 OR color\$1 OR liv\$3 OR activ\$5)) AND ((heap\$1 or (memory near3 pool)) near4 (dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3 OR export\$3 OR archiv\$3)) NOT (L51 OR L55)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:22
L58	82	L57 AND (L14 OR L15 OR L16 OR L17)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:22
L59	2	L43 AND L58	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:24
L60	258	heap near2 dump\$3	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:24
L61	3687	((711/159) or (711/170-173)).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:24
L62	612	(707/206).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:24



## EAST Search History

L63	1079	(718/104).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:24
L64	651	((717/128) or (717/148)).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:24
L65	8	L60 AND (L61 OR L62 OR L63 OR L64)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:24
L66	3	L43 AND L65	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:25
L67	67126	(memory ADJ leak\$3 OR garbage ADJ collect\$4 OR GC OR (memory near4 (deallocat\$3 OR de-allocat\$3)))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:25
L68	5831	(L61 OR L62 OR L63 OR L64)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2006/05/16 16:25
L69	655	((dump\$3 OR copying OR cop\$3 OR store\$1 OR storing OR sav\$3 OR export\$3 OR archiv\$3) near5 (state\$1 OR status OR color\$1 OR liv\$3 OR dead OR activ\$5 OR inactiv\$3 OR unreachable)) near5 (text OR fil\$3 OR plaintext OR log\$1 OR archiv\$3 OR database\$1) AND L67	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:25
L70	30	L69 AND L68	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:25
L71	2	L43 AND L70	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:32
L72	379	(717/128).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:38
L74	4	L72 AND (garbage ADJ collect\$4) AND (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:38

## EAST Search History

L75	534	(711/159).CCLS.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	OFF	2006/05/16 16:39
L76	11	L75 AND (garbage ADJ collect\$4) AND (memory ADJ leak\$3)	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/05/16 16:38